BRUHATH BANGALORE MAHANAGARA PALIKE

PROJECT DIVISION, YELAHANKA ZONE

Job Code: 006-20-000008 & 006-20-000007

Name of Work (as per sanctioned estimate) : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra

Name of Agency :- M/s. Sri. K S Chowdareddy

Tender Amount As Per CSR: Rs. 1,39,62,640.58/-, vide CER:

Work Order t No. :EE(Project)/Ynk Zone/WO/193/2020-21, Date:20/03/2021, Estimate Cost Rs.160.00Lakhs, Job Code No.006-20-000008 & 006-20-000007, Budget Head : P-3727 NAVA NAGAROTHANA GRANTS

Amount Put To Tender As Per Sanctioned Cost : Rs.1,41,02,267.00/-

Head of Account :

WORK SLIP RATE ANALYSIS (PWD CSR 2018-19)

SL. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
6	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and directions of Engineer in charge.	Cum	6	2.4.	449.00		449.00	35.92	484.92	4.85	489.77
7	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications and directions of Engineer in charge.	Cum	7	2.15.	2429.00		2429.00	194.32	2623.32	26.23	2649.55
8	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of Engineer in charge.	Cum	13	4.1, 4.2	5194.00		5194.00	415.52	5609.52	56.10	5665.62
9	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of Engineer in charge.	Cum	13	4.6.	5422.00		5422.00	433.76	5855.76	58.56	5914.32

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SL. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
10	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing completeas per specifications and directions of Engineer in charge.	Cum	25	5.6.	4596.00		4596.00	367.68	4963.68	49.64	5013.32
11	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications and directions of Engineer in charge.	Cum	7	2.10.	201.00		201.00	16.08	217.08	2.17	219.25
12	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.	Cum	136	17.4.	77.48		77.48	6.20	83.68	0.84	84.52
13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons and directions of Engineer in charge.	Sqm	16	4.28.	258.00		258.00	20.64	278.64	2.79	281.43
14	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons and directions of Engineer in charge.	Sqm	16	4.31.	358.00		358.00	28.64	386.64	3.87	390.51
15	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton and directions of Engineer in charge.	Sqm	16	4.32.	456.00		456.00	36.48	492.48	4.92	497.40
19	:Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton and directions of Engineer in charge.	Sqm	17	4.38	520.00		520.00	41.60	561.60	5.62	567.22
20	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour complete as per specificaiton and directions of Engineer in charge.	Sqm	17	4.37	323.00		323.00	25.84	348.84	3.49	352.33

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Sl. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
21	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications and directions of Engineer in charge.	Cum	14	4.12.	5812.00		5812.00	464.96	6276.96	62.77	6339.73
22	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated for all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications and directions of Engineer in charge.(Ground Floor)	Cum	14	4.12	6045.00		6045.00	483.60	6528.60	65.29	6593.89
23	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated for all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications and directions of Engineer in charge.(First Floor)	cum	14	4.12.	6045.00	60.00	6105.00	488.40	6593.40	65.93	6659.33

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SL. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
24	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated for all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications and directions of Engineer in charge.(Head Room)	Cum	14	4.12.	6045.00	120.00	6165.00	493.20	6658.20	66.58	6724.78
26	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications and directions of Engineer in charge.(Ground Floor)	sqm	15	4.2	496.00		496.00	39.68	535.68	5.36	541.04
27	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications and directions of Engineer in charge.(First Floor)	sqm	15	4.20.	496.00	5.00	501.00	40.08	541.08	5.41	546.49
28	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of Engineer in charge.(Ground Floor)	MT	18	4.46.2.	70966.00		70966.00	5677.28	76643.28	766.43	77409.71
29	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of Engineer in charge.(First Floor)	MT	18	4.46.2.	70966.00	748.00	71714.00	5737.12	77451.12	774.51	78225.63

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SL. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
31	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications and directions of Engineer in charge.(Ground Floor).	Sqm	27	5.27.1.	912.00		912.00	72.96	984.96	9.85	994.81
32	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications and directions of Engineer in charge.(First Floor).	Sqm	27	5.27.1.	912.00	35.00	947.00	75.76	1022.76	10.23	1032.99
39	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of Engineer in charge.(Ground Floor)	Sqm	115	15.10.	204.00		204.00	16.32	220.32	2.20	222.52
40	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of Engineer in charge.(First Floor)	Sqm	115	15.10.	204.00	6.00	210.00	16.80	226.80	2.27	229.07
44	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of Engineer in charge.(Ground Floor)	Sqm	116	15.22.	225.00		225.00	18.00	243.00	2.43	245.43
45	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of Engineer in charge.(First Floor)	Sqm	116	15.22.	225.00	6.00	231.00	18.48	249.48	2.49	251.97
47	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification and directions of Engineer in charge.	Sqm	128	15.106.	78.00		78.00	6.24	84.24	0.84	85.08

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SL. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
48	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer and directions of Engineer in charge.	Sqm	119	15.51.2	90.00		90.00	7.20	97.20	0.97	98.17
50	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications and directions of Engineer in charge. (Ground Floor)	Sqm	127	15.103.	344.00		344.00	27.52	371.52	3.72	375.24
51	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications and directions of Engineer in charge. (First Floor)	Sqm	127	15.103.	344.00	4.00	348.00	27.84	375.84	3.76	379.60
53	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications and directions of Engineer in charge. (Ground Floor)	Sqm	104	14.13.	631.00		631.00	50.48	681.48	6.81	688.29
54	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications and directions of Engineer in charge. (First Floor)	Sqm	104	14.13	631.00	2.00	633.00	50.64	683.64	6.84	690.48

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SL. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
55	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of all materials, mortor ,labour, curingetc,complete as per specification. - minimum width of 1200mm and directions of Engineer in charge. (Ground Floor)	Sqm	112	14.61.1.	2051.00		2051.00	164.08	2215.08	22.15	2237.23
57	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,complete as per Specification and directions of Engineer in charge. (Ground Floor)	Sqm	110	14.51.	4456.00		4456.00	356.48	4812.48	48.12	4860.60
58	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,complete as per Specification and directions of Engineer in charge. (First Floor)	Sqm	110	14.51.	4456.00	2.00	4458.00	356.64	4814.64	48.15	4862.79
59	Providing Ceramic tiles of size 30x30cms 6mm thick of approved make ,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications and directions of Engineer in charge. (Ground Floor)	Sqm	108	14.36.2.	1210.00		1210.00	96.80	1306.80	13.07	1319.87
65	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and directions of Engineer in charge.	Nos	60	9.80.	1366.00		1366.00	109.28	1475.28	14.75	1490.03

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S.L. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
70	Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame complete as per specifications and directions of Engineer in charge.(Ground Floor)	m	63	9.95.	450.00		450.00	36.00	486.00	4.86	490.86
72	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot complete as per specifications and directions of Engineer in charge.(Ground Floor)	Sqm	62	9.94.	3800.00		3800.00	304.00	4104.00	41.04	4145.04
74	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and directions of Engineer in charge.	Sqm	121	15.60.1	97.00		97.00	7.76	104.76	1.05	105.81

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
75	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality complete as per specifications and directions of Engineer in charge.(Ground Floor)	Sqm	35	7.11.2.	4435.00		4435.00	354.80	4789.80	47.90	4837.70
76	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality complete as per specifications and directions of Engineer in charge.(First Floor)	Sqm	35	7.11.2	4435.00	6.00	4441.00	355.28	4796.28	47.96	4844.24

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
77	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and directions of Engineer in charge.(Ground Floor)	Kg	34	7.9.	95.00		95.00	7.60	102.60	1.03	103.63
78	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and directions of Engineer in charge.(First Floor)	Kg	34	7.9.	95.00	6.00	101.00	8.08	109.08	1.09	110.17
79	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and directions of Engineer in charge.	sqm	123	15.74.	95.00		95.00	7.60	102.60	1.03	103.63
124	Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications and directions of Engineer in charge.	Unit	84	12.41.	1136.00		1136.00	90.88	1226.88	12.27	1239.15
125	Providing and fixing C.P brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specifications and directions of Engineer in charge.	Unit	85	12.45.	739.00		739.00	59.12	798.12	7.98	806.10
128	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe.160mm dia pipe and directions of Engineer in charge.	m	90	12.116.3.	855.00		855.00	68.40	923.40	9.23	932.63
132	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of Engineer in charge.	Each	93	13.24.	173.00		173.00	13.84	186.84	1.87	188.71
133	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of Engineer in charge.	Each	93	12.27.	141.00		141.00	11.28	152.28	1.52	153.80

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
134	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of Engineer in charge.	Each	93	13.33.	336.00		336.00	26.88	362.88	3.63	366.51
135	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) 20mm nominal OD pipes complete as per specifications and directions of Engineer in charge.	m	99	13.86.2.	235.00	5.00	240.00	19.20	259.20	2.59	261.79
137	Point wiring using copper wire without switch (Class A material). Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2X1.5Sqmm(phase &Netural) &1X1.0 Sqmm (Earth Wire) FRLSmultistrand PVC insulated ,2x1.5sqmm copper confirming to the GTP With a 6Amps flusg type SP control switch shall be fixed on the existing plastic sheet / gand box .the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet Short point upto 3m complete as per specifications and directions of Engineer in charge.	Point	5	2.1.1a	185.19		185.19	14.82	200.00	2.00	202.00
138	Point wiring using copper wire without switch (Class A material). Supplying and wiring adopting loop system in existing PVC conduit/casing capping using 2X1.5Sqmm(phase &Netural) &1X1.0 Sqmm (Earth Wire) FRLSmultistrand PVC insulated ,2x1.5sqmm copper confirming to the GTP With a 6Amps flusg type SP control switch shall be fixed on the existing plastic sheet / gand box .the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet Medium point above 3m-6m complete as per specifications and directions of Engineer in charge.	Point	5	2.1.2a	185.19	69.44	254.63	20.37	275.00	2.75	277.75
140	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary 19/20mm dia, 2mm thick complete as per specifications and directions of Engineer in charge.	Mtr	2	1.2.1	37.04		37.04	2.96	40.00	0.40	40.40

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S. No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
143	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall 1 - 3 Way complete as per specifications and directions of Engineer in charge.	Each	9	3.4.1	87.96		87.96	7.04	95.00	0.95	95.95
144	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall 4 - 5 Way complete as per specifications and directions of Engineer in charge.	Each	9	3.4.1	87.96	9.26	97.22	7.78	105.00	1.05	106.05
145	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654 6AMP 3/5 and Switch complete as per specifications and directions of Engineer in charge.	Each	9	3.1.2	122.22		122.22	9.78	132.00	1.32	133.32
147	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 16Amps Combined switch and socket with indication complete as per specifications and directions of Engineer in charge.	No		3.3.4	179.63		179.63	14.37	194.00	1.94	195.94
148	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 Electronic stepped regulator complete as per specifications and directions of Engineer in charge.	No		3.3.4	195.37		195.37	15.63	211.00	2.11	213.11
149	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements 2.5sqmm complete as per specifications and directions of Engineer in charge.	Mtr	6	2.5.3	29.63		29.63	2.37	32.00	0.32	32.32
150	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements 4sqmm complete as per specifications and directions of Engineer in charge.	Mtr	6	2.5.4	29.63	12.04	41.67	3.33	45.00	0.45	45.45
151	Supplying and fixing Metal Fan Box with Round Hook complete as per specifications and directions of Engineer in charge.	Nos	3	1.12	78.70		78.70	6.30	85.00	0.85	85.85
153	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C (48/6.36) complete as per specifications and directions of Engineer in charge.	Each	48	6.36	442.00		442.00	0.00	442.00	4.42	446.42

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
155	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing meterials and "C" type curve, Indiator ON/OFF energy cross -3 with as required confirming to IEC 60898 5-32 AMPS DP complete as per specifications and directions of Engineer in charge.	Nos	47	6.16.3	841.67		841.67	67.33	909.00	9.09	918.09
161	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING faciility 600mmX600mmX170mm complete as per specifications and directions of Engineer in charge.	Sqcm		5.44.4	12081.00		12081.00	0.00	12081.00	120.81	12201.81
162	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint (49/6.39) 75x75x6mm complete as per specifications and directions of Engineer in charge.	Mtr	49	6.39.1	439.82		439.82	35.19	475.00	4.75	479.75
163	Supplying and fixing angle iron frame work iabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint (49/6.39) 75x150x50x6mm C channel complete as per specifications and directions of Engineer in charge.	Mtr		6.39.2	439.82	160.18	600.00	48.00	648.00	6.48	654.48
164	Supplying and Fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete, protection of Overload and Short circuit with thermal Magnetic/Microprocessed release and Earth Fault as per IS-13947. (icu =Ics) (53/4.12) 63/100Amps 25kA complete as per specifications and directions of Engineer in charge.	Each	53	4.12	5809.00		5809.00	0.00	5809.00	58.09	5867.09
174	Supplying and fiixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (69/7.14) 75mm dia complete as per specifications and directions of Engineer in charge.	Each	69	6.11.7	459.26		459.26	36.74	496.00	4.96	500.96
175	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating. (68/7.9) In soil (hard) complete as per specifications and directions of Engineer in charge.	Mtr	61	7.9.3.	85.00		85.00	0.00	85.00	0.85	85.85

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
177	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications and site engineer in incharge	Cum	14	4.12.	5812.00	413.00	6225.00	498.00	6723.00	67.23	6790.23
180	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per per specifications and site engineer in incharge(Head Room)	Sqm	27	5.26.1	962.00	55.00	1017.00	81.36	1098.36	10.98	1109.34
181	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications and engineer in incharge	Sqm	27	5.28.	811.00	70.00	881.00	70.48	951.48	9.51	960.99
183	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and engineer in incharge(Terrace Floor)	Sqm	116	15.16.	261.00	36.00	297.00	23.76	320.76	3.21	323.97
184	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and engineer in incharge(Head Room)	Sqm	116	15.22.	222.00		222.00	17.76	239.76	2.40	242.16

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.No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
191	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications and direction of site engineer incharge(Head Room)	Sqm	104	14.13.	631.00	6.00	637.00	50.96	687.96	6.88	694.84
192	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm. complete as per specifications and direction of site engineer in incharge	Sqm	112	14.61.2	1979.00	4.00	1983.00	158.64	2141.64	21.42	2163.06
201	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification.	kgs	43		111.00	12.00	123.00	9.84	132.84	1.33	134.17

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
202	Providing and fixing of Aluminium composite panel of approved make colour for wall cladding for straight Brick/Rcc/stone walls &coloumns/beams with necessary aluminium frame works at required level made out of 50x25x4mm C section or equalent. The panel shouldconsist of 3 thk non-halogonated FR grade mineral based polymer core (2 hrs fie Resistence as per ASTM E119-12& Clause B, S1,do as per, BS476EN 13501) sandwiched between 0.5mm skins thick aluminium sheet making a total panel thickness of 4mm. The surfaces will be finished with PVDF based coating ontopsides and service coating on reverse sides would be in polyester paint. the Surface is Finisshed With PVDF based coating on topsides and Service Coating on Reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleatsand stainless steel bolts and nuts complete with spring washer and capnuts and all other necessary accessories, sealing shall be done using weather sealant necessary rods etc., complete as per specification and direction of site engineer in incharge	Sqm	39	7.19.	4400.00		4400.00	352.00	4752.00	47.52	4799.52
203	Providing and fixing of Aluminium composite panel of approved make colour for wall cladding for straight Brick/Rcc/stone walls &coloumns/beams with necessary aluminium frame works at required level made out of 50x25x4mm C section or equalent. The panel shouldconsist of 3 thk non-halogonated FR grade mineral based polymer core (2 hrs fie Resistence as per ASTM E119-12& Clause B, S1,do as per, BS476EN 13501) sandwiched between 0.5mm skins thick aluminium sheet making a total panel thickness of 4mm. The surfaces will be finished with PVDF based coating ontopsides and service coating on reverse sides would be in polyester paint. the Surface is Finisshed With PVDF based coating on topsides and Service Coating on Reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleatsand stainless steel bolts and nuts complete with spring washer and capnuts and all other necessary accessories, sealing shall be done using weather sealant necessary rods etc., complete as per specification and direction of site engineer in incharge(Second Floor)	Sqm	39	7.19.	4400.00	6.00	4406.00	352.48	4758.48	47.58	4806.06

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
204	Providing, fabricating and fixing of stick type structural glazing using Alluminium Extrusions of 63.5 mm x 58.00 mmx 2.25 mm of 1.73 kgs/ mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33 mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coatedocean blue raw glass with all necessary accesories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchaor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealent setting clocks, fasteners, wall connection etc., complete as per specification and direction of site engineer in incharge	Sqm	40	7.20.	6653.00	6.00	6659.00	532.72	7191.72	71.92	7263.64
205	Providing, fabricating and fixing of stick type structural glazing using Alluminium Extrusions of 63.5 mm x 58.00 mmx 2.25 mm of 1.73 kgs/ mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33 mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coatedocean blue raw glass with all necessary accesories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchaor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealent setting clocks, fasteners, wall connection etc., complete as per specification and direction of site engineer in incharge(Second Floor)	Sqm	40	7.20.	6653.00	12.00	6665.00	533.20	7198.20	71.98	7270.18

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No.	Dscription.	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
206	Providing , fabricating, assembling and fixing in position aluminium partition using 101.60mm x 44.45mm x 3.18mm aluminium, mat finish or glossy finish , anodized sections combination of plain , single groove and double groove members should not exceed 0.60mc/c and bottom member of required lengths, joints mitred and corner grinded sub dividing assembled frame should be stiffened with corner angles. Stripped and fixed with screws rawl plug and teakwood guttas to RCC column or masonry on sides. RCC lintels or beams at top and mosaic floor at bottom; including cutting chistelling and making good with cement mortar to match the surface .Providing and fixing 12mm.thick prelaminated sheet (Ecoboard – exterior grade)of approved colour for bottom panel of maximum height 0.9m, and 5.50 mm thick plain or pin headed glass for middle panel and top panel with glazing clips pf 19.05mm.x17.30mm.1.00mm. All the aluminium sections used should be treated for removal of any rust and prevention of further rust formation and coated with greasy materials for non adherence of mortar or any other sticky materials: The vertical members should be embedded in the flooring by making suitable size holes and fixing with cement mortar. All the frame should be thoroughly cleaned free from rust , scale or dirt. work should be carried out as per direction of engineer-in-charge of the work with all lead and lift as per chief Architect's drawing etc., complete to a degree of perfection. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality complete as per specification and direction of engineer in incharge.	Sqm	40	7.22.1.	2500.00	100.00	2600.00	208.00	2808.00	28.08	2836.08
227	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc..) 25mm nominal OD pipes completeas per specification and direction of site engineer in incharge	m	99	13.86.2	235.00		235.00	18.80	253.80	2.54	256.34

Assistant Engineer.
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

Executive Engineer,
Bruhat Bangalore Mahanagara Palike

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BRUHATH BANGALORE MAHANAGARA PALIKE

PROJECT DIVISION, YELAHANKA ZONE

Job Code: 006-20-000008 & 006-20-000007

Name of Work (as per sanctioned estimate) : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra

Name of Agency :- M/s. Sri. K S Chowdareddy

Tender Amount As Per CSR: Rs. 1,39,62,640.58/-, vide CER:

Work Order t No. :EE(Project)/Ynk Zone/WO/193/2020-21, Date:20/03/2021, Estimate Cost Rs.160.00Lakhs, Job Code No.006-20-000008 & 006-20-000007, Budget Head : P-3727 NAVA NAGAROTHANA GRANTS

Amount Put To Tender As Per Sanctioned Cost : Rs.1,41,02,267.00/-

Head of Account :

EIRL -01 (PWD CSR 2018-19)

SL. No.	Description	Unit	Qty	Rate	Amount	Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender	Whether the Extra item is in the sanctioned Estimate	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
EIRL1	KSRB 2.5 : Earthwork excavation in all soil depos its and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9/2.9.1 0.1 /2.1.1	cum	661.64	439.59	286467.12	Yes	No	(Page no.-7, Item No.-2.12, KPWD SR-2018-19)	
EIRL2	KSRB 9.4-1 : Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications. Specification No. KBS 9.33 9.10 KSRB 9.4 ; -do- Teak wood frames	cum	0.53	198611.77	104926.60	Yes	No	(Page no.-53, Item No.-9.10., KPWD SR-2018-19)	
EIRL3	KSRB 9.5: Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 1 OOmm wide as per drawing and panels of25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 9.14 KSRB 9.5-1 :-do- Teak wood	cum	15.28	8844.21	135117.36	Yes	No	(Page no.-53, Item No.-9.14., KPWD SR-2018-19)	
EIRL4	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding,cutting and grinding equipment, and electricity charges. etc., complete as per specification and drawing	Sqm	17.43	3097.87	53995.91	Yes	No	(Page no.-44, Item No.-7.35., KPWD SR-2018-19)	

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SL. No.	Description	Unit	Qty	Rate	Amount	Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender	Whether the Extra item is in the sanctioned Estimate	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
EIRL5	KSRB 7.3 : Providing and fixing 1 mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM complete as per specifications. Double leaf door of size 2.4x2.4m Specification No. KBS 7.9/7. 1	Sqm	8.47	2976.79	25225.35	Yes	No	(Page no.-33, Item No.-7.3., KPWD SR-2018-19)	
EIRL6	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvalume iron Trapezoidal profiled sheet of approved make 1 060 mm width (1 000 mm cover width}, 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zino-Aiu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy	sqm	33.06	750.47	24806.80	Yes	No	(Page no.-299, Item No.-38.30., KPWD SR-2018-19)	
EIRL7	Providing and fixing flush door shutter made out of solid core black board type, well seasoned chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame all-round door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door using liquid phenol formaldehyde resin as per IS specification 2202 (Part-1) 1991. From manufacturer (Factory) complete as per specification.-35mm thick both side Teak (Item No.9.106.4, SR 2018-19, Page No. 65)	Sqm	3.78	4302.12	16262.00	Yes	No	(Page no.-65, Item No.-9.106.4, KPWD SR-2018-19)	
EIRL8	Supplying of .....feet -PVC Batten with integrated LED tube .... W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.-LED light fitting 1 x 4' - 36/40 W(Item No. 11.3.3 , Page No. 34 Ele SR 2019-20)	Each	23.00	631.25	14518.75	Yes	No	(Page no.-34, Item No.-11.3.3, KPWD Ele SR-2019-20)	
EIRL9	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition(Item No. 11.5.1 , Page No. 34 Ele SR 2019-20)LED square or round down light 5-6W	Each	17.00	509.04	8653.68	Yes	No	(Page no.-34, Item No.-11.5.1., KPWD Ele SR-2019-20)	

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SL. No.	Description	Unit	Qty	Rate	Amount	Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender	Whether the Extra item is in the sanctioned Estimate	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
EIRL10	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.15" Sweep (450 mm)(Item No. 6.2.2 , Page No. 22 Ele SR 2019-20)	Each	1.00	2148.27	2148.27	Yes	No	(Page no.-22, Item No.-6.2.2., KPWD Ele SR-2019-20)	
EIRL11	KSRB 15-17.12: Providing and applying polishing with french polish on new wood surface and I or wood based surface to give an even surface after cleaning the surface of all dirt, dust and foreign matter, sand papered smooth, including cost of wood filler and materials, labour, complete as per specifications.(Item No.15.64, SR 2018-19, Page No. 122)	Sqm	9.07	220.34	1998.94	Yes	No	(Page no.-122, Item No.-15.64, KPWD SR-2018-19)	
EIRL12	Providing and lay ing platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full round ing for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete as per specification.(Item No.14.52, SR 2018-19, Page No. 110)	Sqm	8.00	3845.07	30752.87	Yes	No	(Page no.-110, Item No.-14.52., KPWD SR-2018-19)	
EIRL13	KSRB 11-14.3 : Providing and fixing stainless steel kitchen sink of size 400x915mm bowl depth 160mm, with drain board, M.S I C.I brackets, stainless steel plug 40 mm, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(Item No.12.38, SR 2018-19, Page No. 84)	Unit	1.00	7040.02	7040.02	Yes	No	(Page no.-84, Item No.-12.38, KPWD SR-2018-19)	
EIRL14	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	7.50	2360.37	17702.78	Yes	No	(Page no.-Data Rate, Item No.-Data Rate, KPWD SR-2018-19)	
EIRL15	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No 27 of I.No.5.30 in PW,P&IWTD SR 2018-19)	No's	22.00	436.80	9609.71	Yes	No	(Page no.-27, Item No.-5.30., KPWD SR-2018-19)	

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SL. No.	Description	Unit	Qty	Rate	Amount	Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender	Whether the Extra item is in the sanctioned Estimate	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
EIRL16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and l or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3(P.No 27 of I.No.4.46.3 in PW,P&IWTD SR 2018-19)-TMT Fe-550	Tonne	14.45	78011.83	1127358.14	Yes	No	(Page no.-18, Item No.-4.46.3., KPWD SR-2018-19)	
EIRL17	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.(P.No 6 of I.No.2.3 in PW,P&IWTD SR 2018-19)-KSRB 2-2. 1: - do - in ordinary soil. No. KBS 2.1 (a) /2.3.5	Cum	756.80	326.15	246828.83	Yes	No	(Page no.-6, Item No.-2.3., KPWD SR-2018-19)	
				Total Rs	2113403.11				

Percentage excess over the Amount put to Tender = EIRL Amount 2113403.11 / Amount put to tender 14102267.00 = 14.99 % age

The E.I.R.L Amounting to Rs. 2113403.11 /-

Assistant Engineer
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

Executive Engineer
Bruhat Bangalore Mahanagara Palike

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BRUHATH BANGALORE MAHANAGARA PALIKE

PROJECT DIVISION, YELAHANKA ZONE

Job Code: 006-20-000008 & 006-20-000007

Name of Work (as per sanctioned estimate) : Package No.16 Construction of Ambedkar Bhavan at Dasarahalli and R K Hegdenagar in Ward No.06 Thanisandra

Name of Agency :- M/s. Sri. K S Chowdareddy

Tender Amount As Per CSR: Rs. 1,39,62,640.58/-, vide CER:

Work Order t No. :EE(Project)/Ynk Zone/WO/193/2020-21, Date:20/03/2021, Estimate Cost Rs.160.00Lakhs, Job Code No.006-20-000008 & 006-20-000007, Budget Head : P-3727 NAVA NAGAROTHANA GRANTS

Amount Put To Tender As Per Sanctioned Cost : Rs.1,41,02,267.00/-

Head of Account :

EIRL RATE ANALYSIS (PWD CSR 2018-19)

SL. No.	Description	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
EIRL1	KSRB 2.5 : Earthwork excavation in all soil depos its and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9/2.9.1 0.1 /2.1.1	cum	7	2.12	403.00		403.00	32.24	435.24	4.35	439.59
EIRL2	KSRB 9.4-1 : Providing wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM complete as per specifications. Specification No. KBS 9.33 9.10 KSRB 9.4 : -do- Teak wood frames	cum	53	9.10.	182079.00		182079.00	14566.32	196645.32	1966.45	198611.77
EIRL3	KSRB 9.5: Providing and fixing in position fully panelled wood shutters for doors, with styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 1 OOmm wide as per drawing and panels of25mm thick including cost of materials, labour, HOM complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 9.14 KSRB 9.5-1 :-do- Teak wood	cum	53	9.14.	8108.00		8108.00	648.64	8756.64	87.57	8844.21

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SL. No.	Description	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
EIRL4	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding,cutting and grinding equipment, and electricity charges. etc., complete as per specification and drawing	Sqm	44	7.35.	2840.00		2840.00	227.20	3067.20	30.67	3097.87
EIRL5	KSRB 7.3 : Providing and fixing 1 mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM complete as per specifications. Double leaf door of size 2.4x2.4m Specification No. KBS 7.9/7. 1	Sqm	33	7.3.	2729.00		2729.00	218.32	2947.32	29.47	2976.79
EIRL6	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvalume iron Trapezoidal profiled sheet of approved make 1 060 mm width (1 000 mm cover width}, 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zino-Aiu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy	sqm	299	38.30.	688.00		688.00	55.04	743.04	7.43	750.47
EIRL7	Providing and fixing flush door shutter made out of solid core black board type, well seasoned chemically treated hard wood battens and internal frame with minimum 45 mm wide wooden frame all-round door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door using liquid phenol formaldehyde resin as per IS specification 2202 (Part-1) 1991. From manufacturer (Factory) complete as per specification.- **35mm thick both side Teak** (Item No.9.106.4, SR 2018-19, Page No. 65)	Sqm	65	9.106.4	3944.00		3944.00	315.52	4259.52	42.60	4302.12
EIRL8	Supplying of .....feet -PVC Batten with integrated LED tube .... W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.- LED light fitting 1 x 4' - 36/40 W(Item No. 11.3.3 , Page No. 34 Ele SR 2019-20)	Each	34	11.3.3	625.00		625.00	0.00	625.00	6.25	631.25

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SL. No.	Description	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
EIRL9	Supply of round/square recess/surface mounted rolling type LED Down light with ..... W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition(Item No. 11.5.1 , Page No. 34 Ele SR 2019-20)LED square or round down light 5-6W	Each	34	11.5.1.	504.00		504.00	0.00	504.00	5.04	509.04
EIRL10	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.15" Sweep (450 mm)(Item No. 6.2.2 , Page No. 22 Ele SR 2019-20)	Each	22	6.2.2.	2127.00		2127.00	0.00	2127.00	21.27	2148.27
EIRL11	KSRB 15-17.12: Providing and applying polishing with french polish on new wood surface and I or wood based surface to give an even surface after cleaning the surface of all dirt, dust and foreign matter, sand papered smooth, including cost of wood filler and materials, labour, complete as per specifications.(Item No.15.64, SR 2018-19, Page No. 122)	Sqm	122	15.64	202.00		202.00	16.16	218.16	2.18	220.34
EIRL12	Providing and lay ing platform using prepolished, water cut I gang saw 40mm thick telephonic Black Granite. laid on existing vertical - supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full round ing for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including cost of all materials, mortar, labour, curing etc., complete as per specification.(Item No.14.52, SR 2018-19, Page No. 110)	Sqm	110	14.52.	3525.00		3525.00	282.00	3807.00	38.07	3845.07
EIRL13	KSRB 11-14.3 : Providing and fixing stainless steel kitchen sink of size 400x915mm bowl depth 160mm, with drain board, M.S I C.I brackets, stainless steel plug 40 mm, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(Item No.12.38, SR 2018-19, Page No. 84)	Unit	84	12.38	6454.00		6454.00	516.32	6970.32	69.70	7040.02
EIRL14	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sqm	Data Rate	Data Rate	2337.00		2337.00	0.00	2337.00	23.37	2360.37

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SL. No.	Description	Unit	Page No.	Item No.	Basic Rate	Lift charges	Total	AW @ 8%	Total Rate	Deduct T.P (+) 1%	Final Rate.
EIRL15	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No 27 of I.No.5.30 in PW,P&IWTD SR 2018-19)	No's	27	5.30.	408.00		408.00	24.48	432.48	4.32	436.80
EIRL16	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification No. KBS 4.6.3(P.No 27 of I.No.4.46.3 in PW,P&IWTD SR 2018-19)-TMT Fe-550	Tonne	18	4.46.3.	71518.00		71518.00	5721.44	77239.44	772.39	78011.83
EIRL17	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.(P.No 6 of I.No.2.3 in PW,P&IWTD SR 2018-19)- KSRB 2-2. 1: - do - in ordinary soil. No. KBS 2.1 (a) /2.3.5	Cum	6	2.3.	299.00		299.00	23.92	322.92	3.23	326.15

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Assistant Executive Engineer
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Executive Engineer
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